Grade Two

These guidelines have been designed to assist teachers to focus on what a typical child should know and be able to do at various times in second grade. The second grade mathematics program presents concepts that are introduced, developed or mastered. All concepts in the curriculum are to be taught requiring the students to explain their answers through writing or showing pictures. Problem solving, communication and reasoning are expected to be incorporated throughout the curriculum.

First Trimester
EM-Units 1, 2, 3, 4

<u>Numbers and Operations</u>
• Whole numbers 0-199 (identify, recognize, order, and compare) *M (N&O) 2-1, 2-2*
• Place value of whole numbers 0-199 *M (N&O) 2-1*
• Symbolic representation *M (N&O) 2-2*
• Inequality (comparing whole number "100 more", "100 less"; greater than (>) and less than (<) *M (N&O) 2-2*
• Addition and Subtraction of whole numbers without regrouping *M (N &O) 2-3*
  (joining actions, separating actions, part-part whole relationships and comparison situations)
• Solve problems involving addition of multiple one-digit whole numbers *M (N &O) 2-3*
• Fact families for addition and subtraction *M (N&O) 2-8*
• Coins (including quarter) *M (N&O) 2-5*
• Add mixed coins up to $1.00 *M (N&O) 2-5*
• Number properties of even and odd numbers *M (N&O) 2-8*
• Field properties – (commutative and identity for addition) *M (N&O) 2-8*

<u>Geometry and Measurement</u>
• Measurement: Time (review to hour and half hour; equivalency-60 minutes = 1hour) *M (G&M) 2-7*
• Measurement: Temperature (to one degree) *M (G&M) 2-7*

<u>Functions and Algebra</u>

<u>Data, Statistics and Probability</u>
• Data interpretation (pictographs, line plots, tally charts, tables) *M (DSP) 2-1*

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Grade Two
Second Trimester
EM-Units 5, 6, 7, 8

Numbers and Operations
 • Identify and represent positive fractions (halves, thirds and fourths) using area and set models *M (N&O) 2-1*
• Parts to whole relationship of fractions in area and set models *M (N&O) 2-1*
• Mentally add or subtract by naming the number that is "10 more or 10 less" *M (N &O) 2-6*
• Mentally add or subtract two digit multiples of 10 *M (N &O) 2-6*
• Estimation (0-50) *M (N&O) 2-7*
• Field properties – (associative for addition) *M (N&O) 2-8*
• Introduce multiplication and division using models and representations

Geometry and Measurement
• Sort and classify polygons (squares, rectangles, triangles, trapezoids, rhombuses, hexagons), circles and objects *M (G&M) 2-1*
• Compose and decompose polygons (triangles, squares, rectangles, rhombuses, trapezoids and hexagons) and circles
  M (G&M) 2-1
• Congruency and line symmetry *M (G&M) 2-4*

Functions and Algebra
• Patterns *M (F&A) 2-1*
• Equality: make an open sentence true (missing addend/missing subtrahend) *M (F&A) 2-4*

Data, Statistics and Probability
• Analyze patterns, trends and distributions in data (pictographs, line plots, tally charts, tables) *M (DSP) 2-2*
• Counting techniques to organize information (diagrams, organized lists, tables, tree diagrams, or others) *M (DSP) 2-4*

GLEs in italics

Grade Two
Third Trimester
EM-Units 9, 10, 11, 12

<u>Numbers and Operations</u>
• Addition and Subtraction of whole numbers with regrouping 0-199 *M (N&O) 2-3*
  (joining actions, separating actions, part-part whole relationships and comparison situations)
• Make change from a dollar *M (N&O) 2-5*
• Add mixed coins up to $1.99 *M (N&O) 2-5*
• Recognize equivalent coin representations < $2.00 *M (N&O) 2-5*
• Master addition and subtraction facts to 20 *M (N&O) 2-6*

<u>Geometry and Measurement</u>
• Perimeter and Area *M (G&M) 2-6*
• Measurement-Length *M (G&M) 2-7*
• Measurement: Time (quarter hour and elapsed time in whole hour increments) *M (G&M) 2-7*
• Spatial relationships (location and position) *M (G&M) 2-9*

<u>Functions and Algebra</u>

<u>Data, Statistics and Probability</u>
• Describe probability of events using "more likely", "less likely", "equally likely", "certain" or "impossible" *M (DSP) 2-5*
• Experimental design *M (DSP) 2-6*

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